

St-Jean Chrysostome (Qc), August 20th 2003

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To the attention of Mr. Frank Lawrence

Group Art Unit: 1724

Phone Number: (703) 305-0585

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Serial Number: 10/091,142

Title: Device used to purify air and keep cleanly a duct of hot air system or central air exchanger

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Applicant: Mr. Jean-Pierre Blais

Signature: 

Date: 08/26/03

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EXAMINER

LAWRENCE JR, FRANK M

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1724

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Please find below and/or attached an Office communication concerning this application or proceeding.

**MARKED-UP COPY**

**[DEVICE USED TO PURIFY AIR AND KEEP CLEANLY THE DUCT  
OF HOT AIR SYSTEM OR CENTRAL AIR EXCHANGER.]**

Device used to purify air and keep cleanly [the] a duct of hot air system or  
central air exchanger

**BACKGROUND OF THE INVENTION:**

**1) Field of the invention:**

The present invention relates to a [device] filter used to purify air and  
keep cleanly [the] a duct of hot air system or central air exchanger.

**2) Description of the related art:**

A search of prior art records has unveiled the following [United  
States] patents:

1. [No] US 4,804,392 issued in 1989 to Spengler;
2. [No] US 4,552,657 issued in 1985 to Ogawa; and
3. [No] US 4,666,531 issued in 1987 to Minard.

The patents to Spengler, Ogawa and Minard are probably the most  
relevant.

As can be seen, the patents do not show a device used to purify air  
and keep cleanly [the] a duct of hot air system or central air exchanger,

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REF ID:A68907

The gist of the invention is therefore to provide a [device] filter .  
[adapted for] fitting with any shape of the duct inlet for hot air system or  
central air exchanger allowing to purify air and keep cleanly the duct.

**BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE  
DRAWING(S):**

Figure 2 is [a perspective] an exploded view [of device having the

shape of cone installed into the round duct inlet inhaling air of the indoor from the house, and which the fixing means is adapted to the shape of round duct inlet] thereof.

Figure 3 is a perspective view of [device] same filter [having the shape of cone installed] mounted into [the square] a duct inlet inhaling air of the indoor from the house, [and] which [a fixing means is adapted] fits to the shape of [square] the duct inlet [.] , and which is fixed by a spring means.

Figure 4 is [a perspective] an exploded view [of device having the shape of cone installed into the square duct inlet inhaling air of the indoor from the house, and which the fixing means is adapted to the shape of square duct inlet] thereof.

Figure 5 is a perspective view of [device having the shape of cone installed] same filter mounted into [the rectangular] a duct inlet inhaling air of the indoor from the house, [and] which [a fixing means is adapted] fits to the shape of [rectangular] the duct inlet [.] , and which is fixed by a spring means.

Figure 6 is [a perspective] an exploded view [of device having the shape of cone installed into the rectangular duct inlet inhaling air of the

indoor from the house, and which the fixing means is adapted to the shape of rectangular duct inlet] thereof.

# **DETAILED DESCRIPTION OF THE INVENTION:**

As shown in figures 1[, 2, 3, 4, 5 and] to 6, a [device] filter used to purify air and keep cleanly [the] a duct of hot air system or central air exchanger, [is made up of a filter (1) having the shape of a cone, which can be installed] is mounted into [the square, rectangular or round] a duct inlet inhaling air of the indoor from the house, [and] which [a fixing means is adapted] fits to the shape of [round, square or rectangular] the duct inlet [.], and which is fixed in place by a spring means.

[As shown in figures 1 and 2, the filter (1) is installed into the round duct inlet inhaling air of the indoor from the house, and which a fixing means (2) is adapted to the shape of round duct inlet. As shown in figures 3 and 4, the filter (1) is installed into the square duct inlet inhaling air of the indoor from the house, and which a fixing means (3) is adapted to the shape of square duct inlet. As shown in figures 5 and 6, the filter (1) is installed into the rectangular duct inlet inhaling air of the indoor from the house, and which the fixing means (3) is adapted to the shape of rectangular duct inlet.]

**CLAIM(S):**

The embodiments of the invention for which an exclusive property or privilege is claimed, are defined as follows:

1. A [device] filter used to purify air and keep cleanly [the] a duct of hot air system or central air exchanger, [said device comprises a filter having the shape of a cone, wherein said filter can be installed] is mounted into [the round, square or rectangular] a duct inlet inhaling air of the indoor from the house, [and] which [a fixing means is adapted] fits to the shape of said [round, square or rectangular] duct inlet [.] , and which is fixed in place by a spring means.

**[DEVICE USED TO PURIFY AIR AND KEEP CLEANLY THE DUCT OF HOT AIR SYSTEM OR CENTRAL AIR EXCHANGER.]**

Device used to purify air and keep cleanly a duct of hot air system or central air exchanger

**ABSTRACT OF THE DISCLOSURE:**

[The present disclosure relates to a] A [device] filter used to purify air and keep cleanly [the] a duct of hot air system or central air exchanger, [is made up of a filter having the shape of a cone, which can be installed] is mounted into [the round, square or rectangular] a duct inlet inhaling air of the indoor from the house, [and] which [a fixing means is adapted] fits to the shape of [round, square or rectangular] the duct inlet [.] , and which is fixed in place by a spring means.



**NEW COPY**

Device used to purify air and keep cleanly a duct of hot air system or central air exchanger

**BACKGROUND OF THE INVENTION:**

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**1) Field of the invention:**

The present invention relates to a filter used to purify air and keep cleanly a duct of hot air system or central air exchanger.

**2) Description of the related art:**

A search of prior art records has unveiled the following patents:

1. US 4,804,392 issued in 1989 to Spengler;
2. US 4,552,657 issued in 1985 to Ogawa; and
3. US 4,666,531 issued in 1987 to Minard.

The patents to Spengler, Ogawa and Minard are probably the most relevant.

As can be seen, the patents do not show a device used to purify air and keep cleanly a duct of hot air system or central air exchanger, which is installed into the duct inlet inhaling air of the indoor from the house and fitting to the shape of the duct inlet, and which is fixed in place by a spring means.

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## **SUMMARY OF THE INVENTION:**

The gist of the invention is therefore to provide a filter fitting with any shape of the duct inlet for hot air system or central air exchanger allowing to purify air and keep cleanly the duct.

The present invention shows a filter mounted into a duct inlet inhaling air of the indoor from the house, which fits to the shape of the duct inlet, and which is fixed in place by a spring means.

## **BRIEF DESCRIPTION OF THE SEVERAL VIEWS OF THE DRAWING(S):**

Figure 1 is a perspective view of a filter mounted into a duct inlet inhaling air of the indoor from the house, which fits to the shape of the duct inlet, and which is fixed by a spring means;

Figure 2 is an exploded view thereof.

Figure 3 is a perspective view of same filter mounted into a duct inlet inhaling air of the indoor from the house, which fits to the shape of the duct inlet, and which is fixed by a spring means;

Figure 4 is an exploded view thereof.

Figure 5 is a perspective view of same filter mounted into a duct inlet inhaling air of the indoor from the house, which fits to the shape of

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**CLAIM(S):**

The embodiments of the invention for which an exclusive property or privilege is claimed, are defined as follows:

1. A filter used to purify air and keep cleanly a duct of hot air system or central air exchanger, is mounted into a duct inlet inhaling air of the indoor from the house, which fits to the shape of said duct inlet, and which is fixed in place by a spring means.

Device used to purify air and keep cleanly a duct of hot air system or central air exchanger

**ABSTRACT OF THE DISCLOSURE:**

A filter used to purify air and keep cleanly a duct of hot air system or central air exchanger, is mounted into a duct inlet inhaling air of the indoor from the house, which fits to the shape of the duct inlet, and which is fixed in place by a spring means.

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